
Prospectus: Kevin Street


Kevin Street College

1980

Prospectus: 1980-81

City of Dublin Vocational Education Committee

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DUBLIN INSTITUTE OF TECHNOLOGY

**College of Technology
Kevin Street
Dublin 8**

**Prospectus
1980/81**



CITY OF DUBLIN VOCATIONAL EDUCATION COMMITTEE

CALENDAR — SESSION 1980/1981

1980 — September

Monday 1st	Commencement of Session Interviews/Registration for Wholetime day courses commence
Monday 8th	Evening courses open for Interviews/Registration
Monday 22nd	Whole-time third-level courses commence, except where otherwise arranged. Evening courses commence, except where otherwise arranged.

October

Wednesday 15th	Votive Mass to mark the commencement of the Academic Year.
Friday 31st	Presentation of Awards. Final date for registration for all students.

December

Monday 22nd

1981 — January to Christmas Vacation

Friday 2nd

March

Friday 6th Closing date for entry for College Summer Examinations.

June

Tuesday 30th Last date for receipt of applications for admission to
Whole-time Courses in Session 1981-82.

Wednesday 17th Closing date for entry for College Supplemental
Examinations

PROSPECTUS 1980/81

**DUBLIN INSTITUTE
OF TECHNOLOGY**

**CITY OF DUBLIN
VOCATIONAL EDUCATION
COMMITTEE**

**College of
Technology**

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D. O'Brien, N.B.Dip., Full Tech.Dip.,
C. & G. (Baking), M.I.I.B.

Staff

PART-TIME LECTURERS

S. Anthony

J. Humphries

R. A. D'Arcy

W. Fitzsimons

E. Kane

P. Maguire

TECHNICAL STAFF

T. Ahern, Inter. C. & G.

J. O'Neill

Department of Electrical Installation

HEAD

Desmond McManus, F.T.C. (E.E.P.),
C. & G.

ACTING ASSISTANT HEAD

J. O'Donnell, B.A., T.Eng. (C.E.I.), M.I.T.E.,
H.Dip.Ed.

LECTURER-IN-CHARGE

Ignatious Tighe

DEPARTMENT SECRETARY

Mrs. Maureen Holland

STAFF LECTURERS

E. Barber, Final (E.E.P.), C. & G.

J. Boyle, T.Eng. (C.E.I.), M.I.T.E.,
F.T.C. (E.E.P.), C. & G.

R. Byrne, B.A., F.T.C. (E.E.P.), C. & G.,
H.Dip.Ed.

G. Caffrey, T.Eng. (C.E.I.), M.I.T.E.

J. Cahill, T.Eng. (C.E.I.), M.I.T.E.

T. Colohan, T.Eng. (C.E.I.), M.I.T.E.,
F.T.C. (E.E.P.) and (E.I.W.), C. & G.

P. Cosgrove, F.T.C. (E.E.P.), C. & G.

H. Dalton, F.T.C. (E.E.P.), C. & G., B.Sc.

J. Davis, F.T.C. (E.E.P.), C. & G.

T. Dillon, B.A., F.T.C. (E.E.P.), C. & G.,
H.Dip.Ed.

M. Farrelly, Tech. (C.E.I.), M.S.E.R.T.,
C. & G.

T. Grandison, M.I.T.E., F.T.C. (E.E.P.),
C. & G.

V. Kenny, T.Eng. (C.E.I.), M.I.T.E.

S. Lyons, M.I.T.E., Final (E.E.P.), C. & G.

M. Maher, T.Eng. (C.E.I.), M.I.T.E.,
F.T.C. (E.E.P.), C. & G.

R. McCann, B.A., Final (E.E.P.), Dept. of
Ed., H.Dip.Ed.

R. McCarthy, F.T.C. (E.E.P.), C. & G.

G. Murphy, B.A., M.Ed. (Hons.), F.T.C.
(E.E.P.), C. & G., A.M.I.T.E., H.Dip.Ed.

J. Nolan, T.Eng. (C.E.I.), M.I.T.E., F.T.C.
(E.E.P.), C. & G.

K. O'Connell, F.T.C. (E.E.P.), C. & G.

S. Sludds, B.A., F.T.C. (E.E.P.), C. & G.,
H.Dip.Ed.

W. Traynor, F.T.C. (E.E.P.), C. & G., T. Eng.
(C.E.I.), M.I.T.E.

R. Weldon, F.T.C. (E.E.P.), C. & G.

PART-TIME LECTURERS

J. Broe

T. Mahon

J. Brown

E. Meagher

J. Byrne

T. Murphy

B. Casey

F. S. O'Connell

J. Donoghue
P. Donoghue
C. Harrington
G. Hartigan
T. Henry

G. O'Gorman
W. B. O'Neill
M. Roberts
L. Trundle
J. P. Walsh

TECHNICAL STAFF

J. Butler
T. Clerkin
J. Comerford
P. Harding

L. Manning
N. Masterson
E. Murphy

Physical Education Unit

LECTURER-IN-CHARGE

S. Byrne, B.A., Dip.P.E., Dip.Ed.
London University

R. Bushell
A. Byrne
N. Daragh
J. Delaney
J. Donnelly
S. Doyle
R. Greenlee

D. Levey
D. McCarthy
H. McNamara
P. Mooney
P. Murphy
M. Nunan

Chaplains

CATHOLIC

Fr. P. Dunne, S.J.
Fr. B. Murray, S.J.
Fr. T. E. O'Keefe, S.J.

CHURCH OF IRELAND

Rev. W. J. Smallhorne

Administration

SECRETARY/REGISTRAR

Miss Moira O'Donovan

SENIOR CLERKS

David Earley
Francis Hayden
Brian Tuohy

SECRETARY TO THE PRINCIPAL

Miss Marie Healy

SECRETARY TO REGISTRAR

Miss Barbara Fyfe

James Behan
Maurice Boland
Martina Fallon
Nora Lavelle
Ann Lawlor
Caroline Mulligan

Christine Murphy
Jacinta O'Brien
Mary O'Brien
Imelda Sheeran
David Stafford

TECHNICAL STAFF

Elma Flanagan
C. Ingle, M.I.R.T.
(C. & G.)

LIBRARIAN

Thomas O'Connor

ACTING MAINTENANCE SUPERVISOR

Mr. James Worrell

NOTICE TO STUDENTS

Students are expected to make themselves aware of the following regulations of the College.

Admission to Courses and Enrolment

1. Enrolment for courses for the session 1980-1981 will not be effected before September 1st, 1980, but applications for admission should be made before Monday, 30th June, 1980.
2. In the session 1980-1981 the latest date for admission of students to classes commencing in the first term is 31st October, 1980. Only in exceptional circumstances will applicants be admitted after that date and a late entry fee of £20 will be payable. Under no circumstances will such applicants be admitted after 31st December, 1980.
3. Intending students should note the statement on Entry Requirements for admission to the College on page 20. Before acceptance of an application for admission to classes or courses, the applicant may be required to attend in person for interview and the College must be satisfied as to his/her ability to benefit from the proposed classes or courses. Approval in this respect must be endorsed on the enrolment form by the Principal, Vice-Principal, appropriate Head of Department or the teacher designated for the purpose. The College may require an applicant to submit to and pass an entrance test and/or a suitability test before admitting him/her to any class or course.
4. Fees must be paid in full on enrolment and may be paid by cash, bankers draft or money order. Cheques will only be accepted when written on production of a Bank Cheque Card. Only in special circumstances will payment by term be permitted.
5. **The sole proof of enrolment in any class or course in the College is the Official Receipt for the class or course fees paid. The Official Receipt must be shown to the class teacher on first attendance at each class of the course. Teachers are authorised to refuse admission to classes of students who do not show their Official Receipt.**
6. Fees are not refundable except where a class or course does not form.
7. On first enrolment new students will be issued with an Identity Card. For this purpose and for the College records students must provide, at their own expense, three copies of a recent photograph (not returnable), of passport type and size. Students who were enrolled in the College in previous sessions must present the Identity Card previously issued to them for re-endorsement for the new session. Where Identity Cards have been lost or are no longer usable, three copies of a recent photograph must again be provided as in the case of first enrolment. Students should note that a charge of £1 will be made for replacement of Identity Cards.

The Identity Card is the property of the College and may be demanded by the College or its officers at any time. Students are therefore required to carry their Identity Cards with them while in College or whenever they may be required to identify themselves as students of the College.

8. Overseas students will be required to hold a First Division Certificate with credits in six subjects including English Language and Mathematics and an approved Science Subject and must make application through their Embassy accredited in Ireland.

9. Change of address or place of employment should be reported to the Secretary/Registrar immediately.

10. The Vocational Education Committee may change any or all of the syllabus, the day and time of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some urgent reason a teacher cannot attend, classes may be cancelled without notice.

11. No exchange of classes may be made after enrolment without the written consent of the Principal, on the recommendation of the Head of Department.

**Attendance, etc.
at classes and
courses**

1. The Vocational Education Committee may expel any student without refund of fees, for irregular or unpunctual attendance or for any other reason which, in the opinion of the College Council, justifies expulsion. Three successive absences from any class may lead to suspension from the entire course, unless a satisfactory written explanation is submitted to the Principal.

2. Students must provide themselves with such books, instruments and equipment (including special clothing) as their classes may, in the opinion of the College, require. In particular, protective clothing must be worn by all students using the Chemistry or Biology Laboratories or the College Workshop. Safety spectacles must be worn in all Chemistry Laboratories.

3. Students are required to keep such notebooks and record books, and to undertake and submit regularly such homework as may be prescribed by members of the teaching staff. Unreasonable failure in this respect may lead to suspension or expulsion.

4. Apprentices and employers are asked to note particularly that from 1st September 1976, details of the employment and the attendance of all apprentices enrolled in release courses are being made available to AnCO, the Industrial Training Authority, whether or not the apprentices are registered with AnCO.

Examinations

1. Progress from one year of a course to the next will be permitted only to students whom the College deems to have satisfactorily completed the earlier year and passed the required external and/or internal examinations.

2. Students should note that a full attendance at classes in all subjects of their course is expected, and a minimum average attendance of 75% in each subject of their course is required.

Students who fail to comply with this requirement without satisfactory explanation will be refused permission to sit College examinations, and endorsement of their entries for external examinations will similarly be refused.

3. Examinations may be set by the College at the end of any year, or at any other point of any course, whether or not external examinations are undertaken at the same point.

4. Students preparing for examinations of external bodies are required to acquaint themselves with the current Regulations of those bodies. Insofar as it is possible the College will advise and assist students regarding the procedure they should adopt in respect of the bodies with which they are concerned.

5. The College is a recognised centre for many external examinations including the Department of Education and The City and Guilds of London Institute. Application for entry to these examinations must be made through the College Office in accordance with the closing dates as indicated on the College Notice Boards. Applications after the relevant closing dates will be accepted only on payment of a Late Entry Fee as stipulated by the regulations of the Examination Institute concerned. In the case of (i) Department of Education examinations the late entry fee will be £2.00 per subject, (ii) The City and Guilds of London Institute £6.00 (sterling).

Where students are in doubt regarding examination arrangements they should make enquiry through the Secretary/Registrar's Office.

6. (i) Each student on a course having mandatory College examinations must make application on or before March 6th, 1981 to sit the appropriate Summer examinations and pay the appropriate examination fee, where applicable, when making such application. Where Supplemental examinations are held a similar application must be made on or before July 17th, 1981 and a similar fee paid by students who wish to sit the Supplemental examinations.

Courses to which this regulation is applicable are identified in the Course descriptions commencing on page 20.

(ii) Students should note that the sole proof that an application has been received by the College is the official receipt for the appropriate examination fee.

(iii) The fees for the College Examinations for the session 1980/81 are as follows: £10 for all final Certificate and Diploma examinations or any part thereof; £5 for all other examinations.

(iv) Applications for entry to examinations received after 6th March, 1981, in the case of Summer examinations and after 17th July, 1981, in the case of Autumn examinations, will be considered by the College only where they are accompanied by a Late Entry Fee of £10. Under no circumstances will applications for entry to examinations be considered if received later than Wednesday, 1st April, 1981, in the case of Summer examinations or 1st August, 1981, in the case of Autumn examinations.

(v) Students will be admitted to the Examination Hall only on production of the Identity Card issued by the College in addition to the appropriate admission ticket which is issued when and if an application to sit the examination is approved by the College.

7. Students on courses having mandatory College examinations who do not take their sessional examinations at the Summer sitting will not be permitted to sit the Supplemental examination, unless the College is satisfied that good and sufficient reason (e.g. serious illness) existed for not taking the Summer sitting.

8. Students on courses having mandatory College examinations are required to pass the sessional examinations on their course at the Summer sitting, or, at latest, at the Supplemental sitting (if any) immediately following each year of study. Those who do not pass these examination sittings will not normally be re-admitted to the course or permitted to resit the examination in later years, except with the special permission of the College Authority. Where such special permission is granted it shall extend to the following Summer and/or Supplemental sitting of the same examination only.

It should be noted that no Supplemental Examinations are held for the Final Year of any College Certificate or Diploma Course.

9. It is the responsibility of each student to ascertain the dates, times and venues of examinations by consulting the appropriate timetables published on the College notice boards. The Colleges does not undertake to provide notices or reminders regarding examinations to individual students. In the case of any uncertainty with regard to examination arrangements enquiries should be made as early as possible in the General Office.

10. Where illness prevents a student from sitting an examination or any part of an examination of the College a Medical Certificate must be submitted to the College Secretary/Registrar not later than the 4th day following the first occasion on which the student is absent. Medical Certificates received later than this will not normally be accepted. Illness will not be accepted as an excuse for absence from examination unless certified as specified above.

11. Students wishing for a recheck of an examination result should make formal written application to the Principal specifying the grounds on which the request is made.

12. Appeals against examination results must be lodged with the Principal within two weeks of the issue of provisional results and must be accompanied by a fee equal to the examination fee. Appeals lodged later than two weeks must be accompanied by an explanation of the circumstances which justify late submission.

Scholarships

Students normally resident in the City of Dublin and who wish to compete for a Scholarship from the City of Dublin Vocational Education Committee should complete the official application form. These forms are available from the College Secretary/Registrar or from Heads of Departments.

Please note that the section on the application form which refers to documentation on public examinations and course acceptance must be signed by an authorised member of the College Staff. The CLOSING DATE for applications to the City of Dublin Vocational Education Committee is WEDNESDAY, 15th October, 1980.

Vocational Education Committees throughout the country offer scholarships to students attending certain full-time technician and other advanced level courses at this College.

Interested students should make immediate application to the Chief Executive Officer of their LOCAL Vocational Education Committee.

Degrees from Dublin University

Students who obtain the Diploma in Electrical Engineering (Course SEE) or the Diploma in Applied Sciences (Course WSAD) are eligible for the award of the appropriate B.Sc. Degree from Dublin University. A fee of £28 is payable to Dublin University by those who present themselves for the degree award. All communications in respect of the award of the above degrees should be addressed to:

The Proctor's Office, West Theatre, Trinity College, Dublin 2.

General

1. Students must at all times obey the lawful instructions of lecturers and other members of the College staff. Misconduct in the College or its grounds may lead to suspension or expulsion. All lecturers are authorised to enforce immediate disciplinary measures in respect of students whom they find violating the regulations of the College or otherwise misconducting themselves.

2. Students are liable for the cost of repair or replacement of College property damaged by them.

3. Students are not permitted to smoke in the College Classrooms, Laboratories, Lecture theatres, workshops, library, gymnasium, swimming pool changing rooms, or Examination Hall.

4. Students are not permitted to wear overcoats, etc., into the College Class Rooms, Laboratories, Lecture Theatres, workshops, gymnasium or library. Locker accommodation is available for a considerable number of students on payment

of a fee of £2.50 per session. This includes a deposit of £2.00, returnable only if the locker key is surrendered within seven days of the expiry of the period for which the locker has been granted.

5. Parking of pedal and motor cycles in the space provided in the College grounds is normally permitted on application. Except with special permission of the Principal, students are not permitted to bring cars into the College grounds.

6. Students are permitted to use the facilities of the College and particularly of the Gymnasium and Swimming Pool, only on the understanding that they do so at their own risk.

7. Though all reasonable care is taken, the College accepts no liability for student property lost, stolen or damaged on the College premises or grounds.

Entry Requirements

In general terms, the minimum academic requirements for entry to courses will be as follows:

(a) For Diploma Course in Applied Sciences and Honours Diploma Course in Electrical Engineering: Grade C or higher in two subjects taken at Higher Level (one of which must be in Mathematics or Applied Mathematics or a Science Subject) in the Leaving Certificate examination.

Pass levels in four other subjects in the Leaving Certificate examination (English and Maths must be among the subjects passed in all cases).

(b) For other courses requiring Leaving Certificate standard for entry: Pass in English, Pass in Maths (or Applied Maths), Pass in three other subjects in the Leaving Certificate examination.

(c) Attainment which the College regards as equivalent to those specified in (a) and (b) will be acceptable.

(d) Applicants may be required to undergo Selection Tests and admission will be dependent on satisfactory results in these tests and on satisfactory interviews as well as the foregoing.

(e) In some cases the College may demand a pass, or a particular grade of pass, in specific subjects additional to those set out above, particularly where such subjects are required by external examining or other bodies.

(f) Where the entry requirement to a particular course is other than as stated in (a) to (e) above, such requirement will be found under the relevant course heading.

The attention of all students is directed to the General Regulations for Schools and Classes operating under the Authority of the City of Dublin Vocational Education Committee which are displayed in the College.

COURSES IN SCIENCE AND RELATED STUDIES

WSAD

DIPLOMA IN APPLIED SCIENCES

A whole-time course leading to a Diploma in Applied Sciences for those wishing to combine the study of two areas of science with emphasis on applied aspects. The suitability of the course for industrial and related activities is enhanced by studies in Management and a modern Continental language.

Those who successfully complete this course are eligible for the award of the B.Sc. (Applied Sciences) Degree of the University of Dublin. Both the Diploma and the Degree may be awarded with honours classification.

The Course is recognised for the purpose of the Local Authorities Higher Education Grants scheme.

Course Duration Four years: 5 days (26-29 hours per week).

Qualifications for Entry As stated at (a) in General Entry Requirements on page 20.

Course

First Year

Mathematics, Physics, Chemistry, Management Studies and a Modern Continental Language.

Second Year

Students select two subjects from Mathematics, Physics and Chemistry and in addition continue their studies in Management Studies and the Modern Continental Language taken in First year. Students selecting Physics and Chemistry will also be required to take Ancillary Mathematics in Second Year.

Third Year

Students continue their studies in the subjects taken in Second Year.

Fourth Year

Each student will continue with the subjects taken in Third year.

Examinations

Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Supplemental examinations will be held where appropriate in the Autumn. The attention of the students is particularly directed to Examination Regulations on pages 16, 17 and 18.

Vacation Training

Students are recommended to undertake suitable employment with Industrial or Scientific enterprises and Laboratories during the Summer Vacation periods. The College will assist when possible in arranging this vacation work.

Course Fees £90 per academic year.

Department in Charge Physics.

PSIP**GRADUATESHIP OF THE INSTITUTE OF PHYSICS**

This is a part-time course extending over two Academic years and leading to the Graduateship of the Institute of Physics Part II Examination. Graduateship of the Institute of Physics is recognised as equivalent to an honours degree in Physics.

Qualifications for Admission

A B.Sc. (Gen) or B.A. (Gen) with Physics as a degree subject, HND in Applied Physics. Technician Diploma in Applied Science (Applied Physics Option) from College of Technology, Kevin Street.

Course Duration

Two year part-time.

Course Content

The Graduateship Part II Examination consists of 4 compulsory papers:

- (1) Atomic and Nuclear Physics.
- (2) Solid State Physics.
- (3) Thermal and Statistical Physics.
- (4) Wave Motion and Electromagnetic Radiation and one paper chosen from:
Applied Optics
Nuclear Instrumentation and Technology.

Examinations

The five examination papers may be taken at the end of the second year of the course or alternatively 2 papers, Atomic and Nuclear Physics and Wave Motion and Electromagnetic Radiation, may be taken at the end of the first year and the outstanding papers at the end of the second. Students whose progress during the first year of the course is unsatisfactory will not be allowed to enter second year. Students are advised to familiarise themselves with the regulations of the Institute.

Fee

£30 per academic year.

Department in Charge

Physics.

WAS**TECHNICIANS' DIPLOMA COURSE IN APPLIED SCIENCE**

This course is designed to meet the requirements of those students seeking a training as Technicians for:

- (a) research and development in industrial laboratories;
- (b) scientific and industrial instrument manufacturing industries;
- (c) the food processing industries.

Course Duration

Three years full-time.

Qualification for Admission

As stated in (b) in General Entry Requirements on page 20.

Course

First Year

Experimental Physics, Mathematics, Chemistry, Biology, Drawing, Industrial Studies, a Modern Continental Language.

In the second and third years students may specialise in one of the following options:

- (1) Applied Chemistry
- (2) Applied Biology
- (3) Applied Physics.

Applied Chemistry Option

2nd and 3rd years: Inorganic, Physical, Organic and Analytical Chemistry, Chemical and Plastics Technology, Mathematics, Industrial Studies and a Modern Continental Language.

The Diploma is approved by the Royal Institute of Chemistry as exempting from Part I Theory Papers of the Graduateship.

Agreement has been reached with a number of firms who will offer employment to students during vacation time with a view to offering sponsorship together with career prospects for selected students.

Applied Biology Option

2nd year: Biochemistry, Microbiology, Applied Biology, Photography, Biological Application of Radioisotopes, Industrial Studies and a Modern Continental Language.

3rd year: Biochemistry, Microbiology, Applied Biology, Biological Application of Radioisotopes, Biometry, Industrial Studies and a Modern Continental Language.

Applied Physics Option

2nd year: Physics, Mathematics (including the use of computers), Materials Science, Electronics, Medical Physics, Photography, Instrumentation and Control Theory, Engineering Practice, Industrial Studies and a Modern Continental Language.

3rd year: Electronics, Instrumentation and Control Theory, Materials Science, Mathematics, Applied Optics, Applied Heat and Acoustics, Vacuum Technology, Engineering Practice, Industrial Studies and a Modern Continental Language.

Examinations

College Examinations will be set in all subjects at the end of each year. Students must pass these examinations in order to proceed to the next year of the course. Supplemental examinations will be held where appropriate in September. The College Diploma will be awarded to those who complete the course in a satisfactory manner and pass the examination at the end of the Final Year. The attention of students is particularly directed to the Examination Regulations on pages 16 to 18.

Vacation Work

Students will be expected to undertake vacation work for at least one month in approved industries. The College may assist them to arrange this.

Fee

£55 per academic year.

Department in Charge

1st year of course: Physics.

2nd and 3rd years: Chemistry/Biology or Physics as appropriate.

PSL**SCIENCE LABORATORY TECHNICIANS' COURSES****Certificate Course**

This course is only for people in suitable employment.

A part-time course to meet the needs of technicians employed in universities, research and other educational institutions and of technicians employed in industrial laboratories. The aim is to provide a thorough grounding in fundamental laboratory practice and procedures and a sound knowledge of the underlying scientific principles.

The first two years of the course are designed to give a general introduction to Science Laboratory Techniques. The third year is planned to allow some degree of specialisation but still retain most of the broad approach of the first two years.

Course Duration Three years — one full day or two half days and two evenings/week.

Subjects Physics, Chemistry, Biology, Laboratory Procedures and Practice, Workshop Practice, Mathematics, Industrial Studies and Laboratory Management.

Examinations Examinations will be held at the end of each year. On passing the third year examinations the student will be awarded a College Certificate.

Diploma Course

A further two years specialised study leading to the Science Laboratory Technicians Diploma.

Qualifications for Admission Science Laboratory Technicians Certificate or equivalent qualification.

Course Duration Two years — one day and two evenings per week.

Examinations Examinations will be held at the end of each year.

Fee £30 per academic year.

Department in Charge Chemistry and Biology.

GI**COURSES IN SCIENCE — GLASSBLOWING**

A course for persons in employment in laboratories who require instruction and practice in glassblowing techniques.

Course Duration One Year: one evening per week.

Fee £22 per academic year.

Department in Charge Chemistry and Biology.

WBD

DIPLOMA IN DIETETICS AND NUTRITION

The following information refers to the existing course structure which is currently under review.

The course is designed to provide an integrated training in the science of nutrition and dietetics and its application to human health and well-being, both at the individual and community level.

Course Duration	Four years full-time with an academic year of approximately 30 weeks distributed over three terms. This includes six months (24 weeks) Clinical Experience in the Dietetic Department of a recognised teaching hospital and also a period of practical experience in the administration of food services and other professional experience (e.g. dietary survey work; school health; nutritionally vulnerable groups).
Qualifications for Entry	Leaving Certificate with passes in at least six subjects, including English, Mathematics, and an approved science subject with Grade C or higher in at least two higher course papers.
Course	The early stages of the Course include Physics, Chemistry, Mathematics, Biology and Food Preparation, followed by Biochemistry Physiology, Nutrition Microbiology and Food Science. The final stages include the study of Applied Nutrition, Medicine, Dietetics and Diet Therapy, Administration of Food Services and Practical Training. Technical French and Industrial Studies are included.
Examinations	Examinations are obligatory at the end of each academic year and must be passed in order to proceed to the following year of the course. These examinations are held in the Summer term with Supplemental examinations in the Autumn. The Diploma awarded by the College is recognised by the British Dietetic Association for full membership and is accepted for admission to M.Sc. programmes in the field of Human Nutrition in various Universities.
Fee	£90 per academic year.
Lecturer-in-Charge	Miss Frances Doherty, B.Sc., B.A. (Mod.), M.N.S.
Department in Charge	Chemistry and Biology

S6

DIPLOMA IN FOOD SCIENCE

A course for Science graduates who require special knowledge of food science. The College will award a Diploma to those who successfully complete the course and pass the examination.

Course Duration	Two years: two evenings per week.
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Minimum Qualifications for Admission	B.Sc. or equivalent in Chemistry or Biology subjects.
Course	The course deals with the chemistry and microbiology of foods as appropriate to research and quality control in the food processing industries. The normal subjects of the course are Applied Chemistry and Bacteriology. Attention is paid to food legislation and codes of practice.
Examination	The College sets its own examination for the award of the Diploma. The attention of students is particularly directed to Examination Regulations on pages 16 to 18.
Fee	£30 per academic year.
Department in Charge	Chemistry and Biology.

PSP

COURSE IN PROFESSIONAL PHOTOGRAPHY

This is a part-time course in Professional Photography with admission restricted to students already employed professionally as assistant or trainee photographers. The certificate of the College is awarded on the result of the College examinations at the end of the third year.

Course Duration	Three years. One day and two evenings per week.
Minimum Qualifications for Admission	As stated at (b) in General Entry Requirements on page 20.
Course	<p>First Year Photographic Theory and Practice, Chemistry, Physics, Technical German, Industrial Studies, Graphic Design.</p> <p>Second Year Photographic Theory and Practice, Physics, Technical German, Industrial Studies, Graphic Design.</p> <p>Third Year Photographic Theory and Practice (including Colour Work), Physics, Technical German, Industrial Studies, Graphic Design.</p>
Examinations	<p>The final examination for the College Certificate in Professional Photography is taken at the end of the third year.</p> <p>Students are required to sit and pass the College examinations at the end of each year of the Course.</p>

The attention of students is particularly directed to Examination Regulations on pages 16 to 18.

Fee £40 per academic year.

Department in Charge Physics

PSP4

ADVANCED CERTIFICATE IN PROFESSIONAL PHOTOGRAPHY

The Advanced Certificate in Professional Photography is a two-year part-time course and is intended for the student who has obtained the College Certificate in Professional Photography. The course aims to increase the student's depth of photographic knowledge and to prepare him for a considerable degree of personal responsibility, both in the organisation, planning and execution of his work as a Photographer and in the supervision of others. Considerable emphasis is placed on developing an awareness of the economic factors affecting the operation of the photographic business or establishment.

Course Duration Two years part-time.

Qualifications for Admission (1) College Certificate in Professional Photography.
(2) An examination which the College considers an equivalent of (1).

Curriculum

First Year

Photography Theory and Practice, Management and Industrial Studies, Law, Graphic Design.

Second Year

Photography Theory and Practice, Management and Industrial Studies and Graphic Design.

Examinations A College Examination will be set in all subjects at the end of the first year. Students must complete their course work in a satisfactory manner and pass the examinations in order to proceed to the second year of the course. The College Advanced Certificate will be awarded to students who complete their course work in a satisfactory manner and pass the examinations at the end of the second year.

Course Fee £40 per academic year.

Department in Charge Physics

PSPT

PHOTOGRAPHIC TECHNICIAN'S CERTIFICATE

This course is intended to meet the requirements of students who are employed:
(a) As photographic technicians in research, industry or allied fields.

(b) In the photofinishing industry and commercial colour laboratories. The Certificate of the College is awarded on the result of the College examinations at the end of the third year of the course.

Course Duration Three years. One day and two evenings per week.

Qualifications for Admission As stated at (b) in General Entry Requirements on page 20.

Course

First Year

General Photographic Theory, Mathematics, Physics, Chemistry, Industrial Studies, Graphic Design.

Second Year

General Photographic Theory, Physics, Chemistry, Industrial Studies, Engineering Practice, Graphic Design.

Third Year

In the third year of the course, the student will follow a specialised course in one of the following:

(a) Applied Photography

or

(b) Photofinishing and Colour Laboratory Practice.

and continue studies in Physics, Industrial Studies, Engineering Practice.

Examinations

The Photographic Technician's Certificate Examination is taken at the end of the third year. Students are required to sit and pass the College examinations at the end of each year of the course.

The attention of students is particularly directed to Examination Regulations on pages 16 to 18.

Fee

£40 per academic year.

Department in Charge

Physics

PSN

COURSE FOR STUDENT NURSES

This course is organised by two of the Colleges of the Dublin Institute of Technology, College of Commerce, Rathmines and the College of Technology, Kevin Street, and is run in conjunction with the Nursing Schools of a number of Dublin hospitals.

Course Duration 3 years, Block Release.

Entry

Qualifications

As stated in (b) in the General Entry Requirements. Prospective students are also required to be members of a Hospital Nursing School which has an agreement with the Dublin Institute of Technology in relation to this course.

Course	First Year
Content	Physics, Chemistry, Psychology, Law and French.
	Second Year
	Biophysics, Biochemistry, Psychology, Law and French.
	Third Year
	Biophysics, Biochemistry, Psychology, Law and French.
Fee	£27 per academic year.
Department in Charge	Physics.

PSIC

GRADUATESHIP OF THE ROYAL INSTITUTE OF CHEMISTRY

This is a part-time course leading to Graduateship of the Royal Institute of Chemistry (Part II). This qualification is recognised as equivalent to an honours degree in Chemistry.

Qualifications for Admission	G.C.E. 'A' Levels in Chemistry, Physics and Mathematics or a National Certificate in Applied Chemistry. Candidates who already hold a B.Sc. (General) or a B.A. (General) with Chemistry as a degree subject, or a HND in Applied Chemistry, or a Technician Diploma in Applied Science (Applied Chemistry Option) from the College of Technology, Kevin Street, may be exempted from the Part I examination subject to the approval of the Royal Institute of Chemistry.
Examinations	Students may sit the Part I examination at the end of the second year and Part II at the end of the fourth year. Students work is assessed at all stages of the course. Students are advised to familiarise themselves with the regulations of the Royal Institute of Chemistry.
Fee	£30 per academic year.
Department in Charge	Chemistry and Biology

WML

COURSE IN MEDICAL LABORATORY SCIENCES

The following information refers to the existing course structure which is currently under review.

The course provides education in the appropriate Sciences and Technology for those seeking a career as Technicians in Medical or Veterinary Laboratories.

The Course is designed to enable students ultimately to become Members of the Institute of Medical Laboratory Sciences.

Course Duration	Three years — five days per week for the full academic session in the first two years, in the third year the students undergo training in approved laboratories.
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Qualifications for Entry	Leaving Certificate with Mathematics, English and an approved Science subject. It should be noted that, because of the large number of applicants for this course, those who are admitted normally have a Leaving Certificate performance exceeding the minimum requirement stated above.
Course	<p>First Year Mathematics, Physics, Chemistry, Biology, Medical Laboratory Sciences, Bioethics, Language.</p> <p>Second and Third Years Medical Laboratory Sciences*, Chemistry, Biology, Biochemistry, Mathematics, Industrial Studies, Language.</p> <p>*Includes Histopathology, Haematology, Blood Transfusion, Microbiology, Clinical Chemistry.</p>
Examinations	Examinations are held at the end of each year. The certificate of the College is awarded on the result of the College examinations at the end of the 3rd year and on the successful completion of the in-service training component of the course.
Fees	1st and 2nd year £70.00 per academic year. 3rd year £27.00.
Lecturer-in-Charge	L. Lawlor, F.I.M.L.S.
Department in Charge	Chemistry/Biology.

WAML

ADVANCED COURSE IN MEDICAL LABORATORY SCIENCES

An advanced course for students of Medical Laboratory Science who are employed in approved medical or veterinary laboratories.

The following information refers to the existing course structure which is currently under review.

Course Duration	Two year block-release of 12 weeks duration in each year.
Qualifications for Admission	The Certificate in Medical Laboratory Sciences with full credits in Physics and Mathematics, or equivalent.
Course	All students will study core subjects and select one specialist option.
Core	Chemistry, Biochemistry, Physiology, Physics, Industrial Studies.
Specialist subject	Microbiology, Histopathology, Haemathology and Blood Transfusion, Clinical Chemistry.

Examinations Students are examined at the end of both years I and II in all the core subjects and in their chosen specialist subjects.

Fee £27 per course.

Department in Charge Chemistry and Biology

S10 SPECIAL COURSE FOR FELLOWSHIP OF THE INSTITUTE OF MEDICAL LABORATORY SCIENCES

An advanced course in Medical Laboratory Sciences for students taking the special fellowship examination of the Institute of Medical Laboratory Sciences. Courses are offered subject to sufficient enrolment.

Course Duration Two years.

Qualifications for Admission Associateship of the Institute of Medical Laboratory Sciences and Diploma in Medical Laboratory Sciences or equivalent.

The course is based on the study guide published by the IMLS on a part-time day, evening and short block basis. All students will study Bio-Medical Science and one specialist subject. The following specialist options are available subject to adequate enrolment.

- Bacteriology
- Blood Group Serology and Transfusion
- Clinical Chemistry
- Haematology
- Histopathology
- *Immunology

Project

A practical project must be carried out and thesis presented, 2500-3000 words.

*The feasibility of offering an immunology option is currently under review.

Examinations Continuous assessment:
Multi-choice, multi-part, essay questions will be set during the two years.
Final examination: Special Fellowship of the Institute of Medical Laboratory Sciences. The College is recognised as a centre for the new approved course of the Institute of Medical Laboratory Sciences.

Course Fee £22 per academic year.

Block Fee £30.

Department in Charge Chemistry and Biology.

S9**COURSE IN ANIMAL TECHNOLOGY/NURSING**

This is a two year evening course for animal technicians and nurses who are employed in approved veterinary institutions. Classes are held concurrently for anatomy and physiology and separate classes are held for each group in the specialised aspects of animal technology and nursing.

At the end of the first year animal technicians sit the Intermediate Examination of the Institute of Animal Technicians. After a further two years study (one year course) they sit the Associateship Examination of the Institute of Animal Technicians.

Animal nurses sit Part I of the registration examination for Registered Nursing Auxiliaries of the Royal College of Veterinary Surgeons at the end of the first year. At the end of the second year they may complete Part II of this examination, thus qualifying as Registered Animal Nursing Auxiliaries.

Course Fee £30 per academic year.

Department in Charge Chemistry and Biology.

S11**INSTITUTE OF MEAT COURSE**

A course leading to the Certificate of the Institute of Meat.

This course is designed for supervisory personnel in the Meat Industry and the evening classes are supplemented by on-the-job training in the relevant meat factories. Students are therefore required to be in appropriate employment.

Although formal entry qualifications are not required it is assumed that candidates have a school background of Leaving Certificate standard.

Course Duration Two years — two evenings per week.

Fee £30 per academic year.

Department in Charge Chemistry and Biology.

S12**MEDICAL SECRETARIES COURSE**

This is a one year evening course for administrative staff in the Health Services. Classes are held on two evenings per week. The aim of the course is to familiarise administrative personnel with Medical Terminology, Health Service Administration and Medical Records Procedures.

Fee £30 per academic year.

Department in Charge Chemistry and Biology.

PCP

COURSE IN PLASTICS

A part-time course for trainee technicians, foremen supervisors and trainee managers in the plastics processing industry. The course is designed to give a broad education in plastics processing and includes a study of material science, extrusion technology, film production, blow moulding, injection moulding and pipe-extrusion.

Course Duration	One year — one week full-time in September followed by one afternoon and evening per week during the remainder of the academic year.
Admission Requirements	As stated at (b) General Entry Requirements on page 20. Applicants must be employed in the plastics industry.
Fee	£30 per academic year.
Department in Charge	Chemistry and Biology.

WSO

DIPLOMA IN OPHTHALMIC OPTICS

This is a whole-time course leading to a Diploma in Ophthalmic Optics and providing the education and training statutorily required for entrants to the profession by the Opticians' Act, 1956 and the Rules made thereunder. The course is approved by Bord na Radharcmhastoiri (the Opticians' Board) which is the Registration Authority set up under the Act. Holders of the Diploma in Ophthalmic Optics must also satisfy the Council of the Association of Ophthalmic Opticians, Ireland, on their clinical competence.

Persons interested in a course in Optical Dispensing should consult the Lecturer-in-Charge.

Course Duration	Four years, including a period of six months' supervised practice undertaken at the end of the third year of the course.
Qualifications for Entry	To be eligible for admission to the Course, applicants must hold the Leaving Certificate in at least six subjects including English and Mathematics, with Grade C or higher in at least two higher course papers. Science subjects are an advantage and it should be noted that those who are admitted normally have a leaving Certificate performance exceeding the minimum requirement stated above. Equivalent qualifications are also accepted.
Course	<p>First Year Mathematics, Physics, Chemistry, Biology, Workshop Practice, Technical German and Industrial and Related Studies.</p> <p>Second Year Statistical Methods, Anatomy and Physiology, Biochemistry, Physical and Geometric Optics, Optical Dispensing, Visual Optics, Technical German and Industrial and Related Studies.</p>

Third Year

Visual Optics and Instruments, Physiology of Vision, Binocular Vision, Contact Lenses, Optical Dispensing, Ophthalmic Practice, Abnormal Ocular Conditions, Law and Ethics, Technical German and Industrial and Related Subjects.

Fourth Year

Six months' supervised practice followed by a return to College for: Abnormal Ocular Conditions, Ophthalmic Practice, Contact Lenses, Environmental Optics, Project Work, Technical German and Industrial and Related Studies.

Examinations Examinations will be set by the College at the end of each year of the course. These will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examination Regulations on pages 16 to 18.

Fees £90 per academic year.

Lecturer-in-Charge K. P. Culliton, F.A.O.I.

Department Physics.

PBA ASSOCIATESHIP OF THE INSTITUTE OF BREWING

A part-time day course for technical staff employed in the Brewing and Distilling Industry. The course structure has been approved by the Institute of Brewing.

Qualifications for Admission As stated in (b) in General Entry Requirements on page 20.

Course Duration Two years.

Course Content **First Year**
Chemistry, Physics and Botany.
Second Year
Biochemistry, Microbiology, Fermentation Science.

Examinations Students will be expected to sit the Examination for Associateship of the Institute of Brewing at the end of the second year.

Fee £30 per academic year.

Department in Charge Chemistry and Biology.

PBE

CERTIFICATE FOR MEDICAL PHYSICS AND PHYSIOLOGICAL MEASUREMENT TECHNICIANS

This is a course for those who work in Medical Physics, or are engaged in various aspects of physiological measurement or bio-engineering. It will be of interest to those working in hospitals, research, and certain types of veterinary, pharmaceutical and agricultural work. The course in the first year deals with the basic sciences and in subsequent years with the general range of Physiological Measurement, Bio-engineering and radioisotope techniques normally used in these situations.

Course Duration Three years, three nights per week.

Entry Qualifications As stated in (b) in General Entry Requirements. Prospective students are also required to be in an appropriate form of employment.

Course Content

First Year
Physics, Chemistry and Biology. Introduction to Electricity, Physiology and Data Presentation.

Second Year
Electricity and Electrical Measurement, Human Physiology and Biochemistry, Radiation Physics, Physical Principles of Instrumentation and Data Interpretation.

Third Year
Physiology, Physiological Measurement Techniques, Biophysics, Bio-engineering Techniques, Radioisotopes Techniques, Computation Techniques.

Examinations Students will sit College Examinations at the end of each year. At the end of the third year students will sit for the College Certificate Examination.

Fee £30 per academic year.

Department in Charge Physics.

PSDC

DENTAL CRAFTSMAN'S COURSE

A part-time course for apprentices employed in dental laboratories. By co-operation with the Board of Governors, the classes in Dental Technology are held in the Dental Hospital.

Course Duration Four years: one half-day and two evenings per week.

Admission Requirements Applicants must be employed in approved dental laboratories and should have the Intermediate or Group Certificate in approved subjects.

Course	First Year English, Science, Dental Theory and Drawing, Dental Technology. Second Year Science, Dental Theory, Dental Technology. Third and Fourth Years Organic Chemistry, Electrotechnology, Dental Theory, Dental Technology.
Examinations	At the end of the second and fourth years students take the Intermediate and Final Examinations, respectively for the Dental Technician's Certificate of the City and Guilds of London Institute. Internal examinations may be set by the College at the end of other years of the course.
Fee	£22 per academic year.
Department in Charge	Chemistry and Biology.

WMT**TECHNICIANS DIPLOMA COURSE IN COMPUTER SCIENCE**

This course is designed to meet the requirements of students seeking training as Technicians with a theoretical and practical knowledge of computers, computer programming and the computing methods in use in industry, commerce and research. The course has sufficient depth in mathematics and statistics for those entering this field at higher technician level.

Course Duration	Three years full time.
Qualifications for Entry	Pass in English, Pass in Maths (or Applied Maths). Pass in three other subjects in the Leaving Certificate examination.
Course	The subjects of each year of the course are:— Mathematics, Computer Science, Numerical Analysis, Statistics, Business Mathematics, Physics, Industrial Studies and a Modern Continental Language.
Examinations	College Examinations will be set in all subjects at the end of each year. These examinations will be held in the Summer and Supplemental examinations will be held where appropriate in the Autumn. The College Diploma will be awarded to students who complete the course satisfactorily and pass the required examinations.
Vacation Employment	Students will be encouraged to undertake suitable employment in industry or commerce during part of the summer vacation.
Course Fee	£55 per academic year.
Department in Charge	Mathematics.

EVENING COURSES IN MATHEMATICS

The Mathematics Department provides the following series of courses for those who wish to improve their mathematical knowledge, particularly in relation to the fields of application indicated.

General Admission Requirements

Admission to any stage of these courses depends on the applicant's knowledge of the material covered in earlier stages and each application is individually assessed on its merits. The Mathematics Department will gladly advise applicants regarding the course and stage most appropriate for their purposes. Applicants may be required to take an admission test.

M1 MATHEMATICS FOR ENGINEERING PRACTICE AND TRADES

A course in Practical Mathematics.

Course Duration Four years: One evening (2 hours) per week.

Examinations The Elementary Certificate Examination of the Department of Education at the end of the second year; the Intermediate Examination at the end of the fourth year.

Fee £22 per academic year.

M2 MATHEMATICS FOR TELECOMMUNICATIONS

Course Duration Four years: One evening per week ($1\frac{1}{2}$ hours per week for first two years; $2\frac{1}{2}$ hours per week in third and fourth years).

Examinations City and Guilds of London Institute Telecommunication Technician's Course examinations in Practical Mathematics at the end of the first year and in Mathematics A, B, C at the end of the second, third and fourth years, respectively.

Fee £22 per academic year.

M3 MATHEMATICS FOR ENGINEERING

Course Duration Four years: One evening per week ($1\frac{1}{2}$ hours in the first and third years; 3 hours in the second and fourth years).

Examinations The Advanced Technological Certificate Examination in Mathematics of the Department of Education at the end of the second year and the Higher Technological Certificate Examination in Mathematics at the end of the fourth year.

Fee £22 per academic year.

M6**STATISTICS**

A course leading to Membership of the Institute of Statisticians.

Classes are provided for students preparing for the Preliminary and Stages I, II and III of the Institute's Examinations.

The Institute may grant exemption from the Preliminary Examination and in certain cases the Part I examination, to candidates with suitable qualifications.

Course Duration Four years: Three evenings (9 hours) per week in the second year and two evenings (6 hours) per week in the first, third and fourth years).

Examinations**First Year**

The Preliminary Examination of the Institute of Statisticians at the end of the first year involving three papers.

- (a) Collection and compilation of data
- (b) Calculation
- (c) Presentation of results

Second Year

The Stage I Examination of the Institute of Statisticians at the end of the second year involving three papers:

- (a) mathematics
- (b) elements of statistical theory
- (c) elements of statistical methods

Third Year

The Stage II Examination of the Institute of Statisticians at the end of the third year involving three papers:

- (a) statistical theory I
- (b) statistical theory II
- (c) applied statistical methods

Fourth Year

The Stage III Examination of the Institute of Statisticians at the end of the fourth year involving three papers:

- (a) sample surveys and experimental design
- (b) special subject A chosen from four options
- (c) special subject B chosen from four further options.

Applicants should consult the Head of the Department regarding the options which the College is prepared to offer. Students are advised to familiarise themselves with the regulations of the Institute.

Fee £30 per academic year.

Department in Charge Mathematics

M7 GRADUATESHIP OF THE INSTITUTE OF MATHEMATICS AND ITS APPLICATIONS

A course leading to the Graduateship of the Institute of Mathematics and its Applications. Graduateship of the Institute of Mathematics and its Applications is recognised as equivalent to an honours degree in Mathematics.

Course Duration Four years: two evenings per week.

Qualifications for Admission A university degree with mathematics at the General Degree level or equivalent.

Course The Graduateship Examination consists of two parts.

Part I

Four papers: three of which must be passed at one sitting.

- (a) mathematical analysis
- (b) mathematical methods
- (c) algebra
- (d) statistics and mechanics.

Part II

Four papers: one compulsory paper:

- (a) mathematical methods
- and three papers chosen from a list of options.

Applicants should consult the Head of the Department regarding the options which the College is prepared to offer.

Examinations Normally students would sit the Part I at the end of the second year and Part II at the end of the fourth year.

Students are advised to familiarise themselves with the regulations of the Institute.

Fee £30 per academic year.

Department in Charge Mathematics.

COURSES IN MODERN LANGUAGES

The Department of Languages and Industrial Studies provides the following courses in Modern Languages for those who wish to acquire or improve a competence in the use of Modern Languages for specialist (vocational, scientific or technical) purposes.

L1/2/3

EVENING COURSES IN MODERN LANGUAGES, GERMAN, FRENCH, RUSSIAN FOR SPECIALIST PURPOSES

Course Duration 2 evenings (6 hours per week).

Fee £27 per academic year.

PCT

CERTIFICATE COURSE IN TRANSLATION

A part-time course in translation techniques leading to the Intermediate Examination offered by the Institute of Linguists Educational Trust.

Course Duration One year, 5 hours weekly.

Qualifications for Entry

Either

- (a) a University degree in French or German; or
- (b) a recognised equivalent in French or German.

Note: Applications may be considered from candidates, otherwise qualified, the level of whose language competence is acceptable.

Course The syllabus is that of the examination of the Institute of Linguists.

Fee £70 per academic year.

WLT

TRANSLATORS' DIPLOMA COURSE

A whole-time course in translation theory, techniques and practice leading to the Translators' Final Examinations offered by the Institute of Linguists Educational Trust.

Course Duration Two years: 15 hours weekly.

Qualifications for Entry

Either (a) a University degree in French or German or (b) a recognised equivalent in French or German.

Note: Applications may be considered from candidates, otherwise qualified, the level of whose language competence is acceptable.

All applicants will be required to undergo an entrance test which will include:

- (i) Translations of 2 passages from French or German into English,

- (ii) comprehension of a passage; questions to be answered in French or German.
- (iii) an oral test.

Course The syllabus is that of the examination of the Institute of Linguists.

Fee £120 per academic year.

Department in Charge Languages and Industrial Studies.

PLAL POST GRADUATE DIPLOMA COURSE IN APPLIED LINGUISTICS

A course in Applied Linguistics leading to the award of the post-graduate Diploma in Applied Linguistics.

Course Duration One year, 30 to 32 weeks, 6 to 8 hours per week; classes to be arranged in the period between 4 p.m. and 10 p.m.

Course Objectives To enable teachers of modern languages to study modern developments in applied linguistics and to relate theoretical and descriptive language studies to the problems of language learning and teaching. The course will deal with applied linguistics in relation to the study and teaching of German, French, and English as a foreign language; later, and if there is an adequate demand, the course may cater for teachers of other modern languages.

Qualifications for Entry (a) A primary degree with German or French or English as a major.
(b) Minimum two years' experience of teaching German or French or English.

Course Fee £120 per academic year.

Department in Charge Languages and Industrial Studies.

ENGINEERING COURSES

ELECTRICAL, ELECTRONIC, TELECOMMUNICATIONS ENGINEERING & RELATED COURSES

SEE

HONOURS DIPLOMA COURSE IN ELECTRICAL ENGINEERING

A whole-time honours course leading to a Diploma in Electrical Engineering for those wishing to become professional electrical engineers.

Those who successfully complete this course are eligible for the award of the B.Sc. (Eng.) degree of the University of Dublin.

This Course is recognised for the purposes of the Local Authorities Higher Education Grants Scheme.

The course is designed to meet the standards set by the Council of Engineering Institutions (CEI). The Institution of Engineers of Ireland recognises this Diploma as fulfilling the educational requirements for Ordinary Membership of this Institution and the consequent exemption of holders of this Diploma from Parts A and B of the Institution examination.

Course Duration Four years: 5 days (approx 30 hours) per week.

Entry Requirements As stated at (a) in General Entry Requirements on page 20.

Course

First Year

Mathematics, Physics, Applied Mechanics, Electricity, Engineering Drawing, Materials and Processes, The Engineer in Society and Continental Language.

Second Year

Mathematics, Physics, Applied Mechanics, Electricity, Engineering Drawing, Materials and Processes, The Engineer in Society, Electronics and Continental Language.

Third Year

Mathematics, Physics, Electrical Measurements, Field and Circuit Theory, Control Systems, Communications Engineering or Electrical Power, The Engineer in Society, Electronics and Continental Language.

Fourth Year

Mathematics, Electrical Engineering Materials, Field and Circuit Theory, Control Systems, Communications Engineering or Electrical Power, Engineering in Society, Electronics and Continental Language.

Examinations

Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn. The attention of students is particularly directed to Examination Regulations on pages 16 to 18.

Vacation Training Students are expected to undertake approved employment with engineering enterprises during the Summer vacation periods. The College will assist in arranging this vacation work.

Fee £90 per academic year.

Department in Charge Electrical Engineering.

WEET TECHNICIAN ENGINEERING DIPLOMA COURSE — ELECTRICAL ENGINEERING

A whole-time course leading to a Technician Engineering Diploma of a high standard in the field of Electrical Engineering. The course has been approved by the Institution of Engineers of Ireland and holders of the College Diploma are eligible for election to the grade of Affiliate and later to the grade of Associate of the Institution.

Course Duration Three years; 5 days (approx 32 hours) per week.

Entry Requirements As stated at (b) in General Entry Requirements on page 20.

Course **First Year**
Mathematics, Applied Mechanics, Physics, Engineering Drawing, Mechanical Workshop, Principles of Electricity, Electronics, Electrical Practice, Economics and a Continental Language.

Second Year
Mathematics, Thermodynamics and Hydraulics, Properties of Materials, Electrical Measurements and Testing, Circuit Theory, Electrical Machines, Electronics, Generation and Transmission, Economics, Distribution and Utilisation, and a Continental Language.

Third Year
Mathematics, Projects, Control Systems, Circuit Theory, Electronics, Generation and Transmission, Economics and a Continental Language.

Examinations Examinations will be set by the College at the end of each year of the course. These examinations will be held in the Summer. Repeat examinations will be held where appropriate in the Autumn.
The attention of students is particularly directed to Examinations Regulations on pages 16 to 18 which apply to this course.

Vacation Training Students are expected to undertake approved employment with engineering enterprises during the Summer vacation periods. The College will, as far as possible, assist students in obtaining such vacation work.

Fee £55 per academic year.

Department in Charge Electrical Engineering.

PET ELECTRICAL TECHNICIAN CERTIFICATE COURSE

A part-time day-release and evening course, which leads to a College Certificate, for personnel in the Electrical Industry.

Course Duration The course runs over the normal college session and the duration per week is: Year I, II and III: one full day and three evenings. Year IV: four evenings.

Entry Requirements (1) Students must be employed in the Electrical Engineering field.
and
(2) must have passed five subjects in the Leaving Certificate examination (see page 19) or have approved alternative qualification.

Course Duration The technological subjects include Generation and Transmission, Utilization, Control and Instrumentation, Applied Electronics, Circuit Theory. The course also includes Mathematics, Physics and English.

Examinations Students will sit college examinations at the end of each session. In addition students may take the Electrical Engineering Practice examinations of the Department of Education or of City and Guilds of London Institute.

Fee £27 per academic year.

Department in Charge Electrical Engineering.

SEBT ELECTRICAL TECHNICIANS' COURSE

A block release course which trains technicians for the electrical supply industry.

Course Duration Two years: 14 weeks in year one and 18 weeks in year two.

Admission Requirements Prospective students must be employed by the electrical supply industry and they must have passed Mathematics intermediate level (T.I.B.) or equivalent.

Course **First Year**
Mathematics, English, Principles of Electricity, Electrical Power, Applied Mechanics.

Second Year Mathematics, English, Field and Circuit Theory, Generation and Transmission, Machines, Distribution and Utilisation, Electrical Measurement.

Examinations Year 1: College examinations.
Year 2: The final examination in Electrical Engineering Practice of the City and Guilds of London Institute and of the Department of Education.

Fee £27 per academic year.

Department in Charge Electrical Engineering.

E1. 1/2/3/4 ELECTRICAL TECHNICIANS' COURSE

An evening course which prepares students for the Electrical Practice examinations of the Department of Education and the City and Guilds of London Institute.

Course Duration Four years: three or four evenings per week.

Admission Prospective students must:

Requirements (i) be employed in the electrical industry;
(ii) have passed the Leaving Certificate with Physics (see page 20) or have an approved alternative qualification.

Course Subjects **Year One**

Mathematics, Mechanics, Electrical Engineering Principles, Engineering Graphics.

Year Two and Three

Mathematics, Mechanics, Field and Circuit Theory, Electrical Power, Electronics.

Year Four

Advanced Electrical Technology Utilisation of Electrical Energy, Control Systems Engineering.

Laboratory work is included in all years of the Course.

Examinations Electrical Engineering Practice (803) of the City and Guilds of London Institute.

Year 1: Part I

Year 3: Part II with Electronics and Power options;

Year 4: Part III with Utilisation of Electrical Energy and Control systems Engineering options.

Department of Education

Year 4: Advanced Electro-technology, and Electrical Engineering Practice (Section B — Advanced Stage).

Fee £30 per academic year.

Department in Charge Electrical Engineering.

E5. 1 ELECTRICAL ENGINEERING

This is a two-year Evening course covering some of the subjects of the Council of Engineering Institution's Part 1 Examination.

Entry Requirements	Students must have completed an approved Technician Course in the electrical or communication field, and have reached an approved level in Mathematics, Applied Mathematics and Physics.
Course	The course will run for three or four evenings per week.
E5. 2	This is a two-year Evening Course covering some of the subjects of the Council of Engineering Institutions Part II Examinations for students who have completed an approved Technician Engineering Course.
Entry Requirements	Students must have completed a Technician Engineering Course in the electrical or communication field and must also have passed or have exemption from the CEI Part 1 Examination.
Course	This course will run for three or four evenings per week and will cover a selection of subjects in the electric power and communication fields, together with the Engineer in Society.
Fee	£30 per academic year.
Department in Charge	Electrical Engineering.

WCE

COURSE IN PREPARATION FOR THE COUNCIL OF ENGINEERING INSTITUTION'S PART 2 EXAMINATION

This is a whole-time course of one year duration covering certain subjects of the CEI Part 2 Examination for students who have completed an approved Technician Engineering Diploma course.

Course Duration	One year; five days per week.
Entry Requirements	Intending students must have successfully completed an approved Technician Engineering Course, and must have passed or obtained exemption from the Council of Engineering Institutions Part 1 Examination.
Course	Mathematics, Electromagnetic Fields and Networks, Physical Electronics, Electronic Engineering, Computer Engineering, Communication Engineering, The Engineer in Society.
Examination	The Council of Engineering Institutions Part 2 Examination in the above subjects.
Fee	£90 per academic year.

Department in Charge Telecommunications Engineering.

WRTT **TECHNICIANS ENGINEERING DIPLOMA COURSE—
TELECOMMUNICATIONS AND ELECTRONICS**

A whole-time course designed to provide a broad and thorough education for students intending to pursue careers as technician engineers in telecommunications and electronics.

Course Duration Three years: five days per week.

Minimum Qualifications for Admission As stated at (b) in General Entry Requirements on page 20.

Course **First Year**
Mathematics, Applied Mathematics, Physics, Engineering Drawing, Workshop Practice, Electricity, Electronics, Industrial Studies and Continental Language.
Second Year
Mathematics, Physics, Electricity, Electronics, Circuit Theory, Measurements, Communications Engineering, Industrial Studies and Continental Language.
Third Year
Mathematics, Physics, Electronics, Circuit Theory, Measurements, Communications Engineering, Industrial Studies and Continental Language.

Examinations The Diploma Examination is taken at the end of the third year. College examinations are held at the end of the first and second years. The attention of students is particularly directed to Examination Regulations on pages 16 to 18.

Fee £55 per academic year.

Department in Charge Telecommunications Engineering.

R6 **TELECOMMUNICATION TECHNICIANS' EVENING
COURSE**

This evening course is designed to prepare students for the Part 1, Part 2 and Part 3 examinations of the City and Guilds of London Institute Course 271. (Telecommunication Technicians Certificate).

Course Duration The first two years complete the requirements for the Part 1 examination. A further two years are required to complete the requirements for the Part 2 examination.
Over these four years attendance at the College is required on four evenings (12 hours) per week.

A further year, with attendance on three evenings (9 hours) per week, completes the course requirements for the Part 3 examination.

**Minimum
Qualifications
for Entry**

Leaving Certificate (Ordinary Level) in Mathematics and English or equivalent. An entrance selection test may be set by the College.

Examinations

Part I (T1) Examinations:

Practical Mathematics (270-1-01), Engineering Science (270-1-02) Reports, Drawings and Processes (270-1-03),

At the end of the second year students will take the Part I (T2) examinations: Mathematics A (270-2-05), Principles A (270-2-06), and Radio and Line Transmission A (270-2-07) or Computers A (270-2-10).

At the conclusion of third year students will sit for the Part 2 (T3) examinations in:

Mathematics B (271-3-11), Telecommunication Principles B (271-3-12) and Radio and Line Transmission B (271-3-13) or Computers B (271-3-17).

At the end of the fourth year the student will take the Part 2 (T4) examinations in Mathematics C (271-4-18), Telecommunication Principles C (271-4-19) and Communication Radio C (271-4-20) or Computers C (271-4-30).

The Part 3 examination will be taken at the end of the fifth year in the following subjects:

Advanced Telecommunication Principles (271-5-31) and Advanced Communication Radio (271-5-33) or Computer Principles (271-5-42).

Fee

£30 per academic year.

**Department
in Charge**

Telecommunications Engineering.

WRS

TECHNICIAN DIPLOMA COURSE IN RADIO-ELECTRONICS

The theoretical and practical content of this whole-time course is designed to provide a sound technical education for students preparing for careers as technicians in the production, testing, installation and maintenance of radio and electronic equipment.

Course Duration

Three years: five days per week.

**Minimum
Qualifications
for Admission**

As stated at (b) in General Entry Requirements on page 20.

Course

First Year

Mathematics, Applied Mathematics, Physics, Electricity, Radio-Electronics, Engineering Drawing, Workshop Practice, Industrial Studies.

Second Year

Mathematics, Physics, Electric Circuits, Electronics, Radio Communication, Industrial Studies.

Third Year

Mathematics, Electric Circuits, Electronics, Radio Communication, Industrial Instrumentation and Control Systems, Industrial Studies.

In addition, a Continental Language (French/German) is included in all years of the course.

Examinations

College Examinations will be taken at the end of first and second years, and the Diploma Examination at the end of the third year.

The attention of students is particularly directed to Examination Regulations on pages 16 to 18.

Fee

£55 per academic year.

**Department
in Charge**

Telecommunications Engineering.

R5

RADIO, TELEVISION AND ELECTRONICS TECHNICIANS' COURSE

This evening course is designed to prepare students for the Part 1, Part 2 and Part 3 examinations of the City and Guilds of London Institute Course 272 (Radio, Television and Electronics Technicians).

Course Duration

The first two years complete the requirements for the Part 1 examination. A further two years are required to complete the requirements for the Part 2 examination.

Over these four years attendance at the College is required on four evenings (12 hours) per week.

A fifth year, with attendance on three evenings (9 hours) per week, completes the course requirements for the Part 3 examination.

**Minimum
Qualifications
for Entry**

Leaving Certificate in Mathematics and English, or equivalent. An entrance selection test may be set by the College. Prospective students must be employed in the radio-electronics trade or industry.

Examinations

Practical Mathematics 270-1-01, Engineering Science (270-1-02), Reports Drawing and Processes (270-1-03).

At the end of second year students will take the Part 1 (T2) examinations: Mathematics A (270-20-5), Principles A (270-2-06), Radio and Electronics A (270-2-11).

At the conclusion of third year students will sit for the Part 2 (T3) examinations in Mathematics B (271-3-11) and Principles B (271-3-12) together with a College examination in Radio and Electronics B.

At the end of fourth year the student will take the Part 2 (T4) examination in Testing Methods (272-2-11) together with either Radio and Television Theory (272-2-12) and Radio and Television Fault Diagnosis (272-2-13) or Electronics Theory (272-2-14) and Electronics Fault Diagnosis (272-2-15).

The Part 3 examination will be taken at the end of the fifth year in the following subjects:

Colour Television (272-5-13) and F.M. and Multiplex Stereo (272-4-22).

Fee	£30 per academic year.
Department in Charge	Telecommunications Engineering.

R7 INDUSTRIAL ELECTRONICS FOR ELECTRICIANS

This evening course extends over two years and is directed specifically towards electricians who require an understanding of industrial electronic principles and equipment.

The course provides an introduction to the principles of analogue and digital electronics and treats selected industrial applications..

Admission Requirements	Entry to the course is restricted to those who have completed a recognised electrical apprenticeship and who are employed as electricians.
Course Fee	£30 per academic year.
Department in Charge	Telecommunications Engineering.

PRM RADIO, TELEVISION AND ELECTRONICS MECHANICS COURSE

This is a part-time day release course designed to prepare students for Parts I, II and III of the City and Guilds of London Institute Course 224.

Course Duration	The course extends over four years. Attendance at the College is required for one day and two evenings per week (12½ hours) for each of the four years.
Admission Requirements	<p>A pass in the Intermediate Certificate or Group Certificate of the Department of Education, with Mathematics and English as essential subjects.</p> <p>Prospective students MUST be employed as trainees or apprentices in the electronics or telecommunications industry.</p>
Course	<p>The course subjects include Electricity, Electronics, Radio, Television together with Mathematics and Mechanical Workshop Practice.</p> <p>A systems approach is used with a strong emphasis on the practical aspects and a restricted use of analysis.</p>

Examinations	The Part 1 examination is taken at the end of the first year.
	The Part 2 examination (written) together with Practical Test set by the Radio, Television and Electronics Examination Board are taken at the end of the third year.
	The Part 3 examination is taken at the end of the fourth year.
	An internal College examination is set at the end of the second year of the course.

Department in Charge	Telecommunications Engineering.
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WRR MARINE RADAR MAINTENANCE CERTIFICATE COURSE

This full-time course is designed to satisfy fully the latest requirements of the syllabus of the Board of Trade for the Marine Radar Maintenance Certificate, and it provides comprehensive coverage of the operation and maintenance of all types of Marine Radar equipment. Two courses are conducted each year, one commencing in September and the other commencing in January/February.

Course Duration	Sixteen weeks: five days per week.
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Admission Requirements	Prospective students are required to hold the Marine Radiocommunication General Certificate, or show evidence of having an equivalent standard of knowledge in Electricity and Radio Communication.
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Course	The course provides instruction and practice in the operation and maintenance of Electronics and Radar equipment.
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Fee	£55 per course.
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Department in Charge	Telecommunications Engineering.
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WRO MARINE RADIO-ELECTRONICS OFFICERS' COURSE

The whole-time course prepares students at the end of three years of study for the Marine Radiocommunication General Certificate conducted by the Department of Posts and Telegraphs. This Certificate is required for employment as a Radio Officer in the international merchantile marine services. In addition the course covers the requirements of the Telecommunications Technicians' Certificate Examination (Course 270/271 Parts I, II) of the City and Guilds of London Institute and students are required to sit these examinations.

Course Duration	Three years: five days per week (including one evening per week during the first year).
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Minimum Qualifications for Admission	As stated at (b) in General Entry Requirements on page 20.
Course	The course includes Mathematics, Engineering Science, Engineering Drawing, Electricity, Electronics, Radio Communication, Industrial Studies and Social Science.
Fee	£70 per academic year.
Department in Charge	Telecommunications Engineering.

R8 COURSE IN DIGITAL ELECTRONICS & MICROPROCESSORS

This evening course extends over three years:

The first year of the course provides a foundation in Digital Electronics; the second year is a basic course in Microprocessors; the third year deals with more advanced topics in the application of Microprocessors.

In all three years of the course attendance is required at the College on two evenings per week.

Admission Requirements	Entry to the Course is restricted to those who have as a minimum a recognised technician qualification in Electronics. Direct entry to the second year of the course will be permitted for those who can produce evidence of having successfully completed a course in digital electronics of a level corresponding to that of the First Year.
Fee	£30 per academic year.
Department in Charge	Telecommunications Engineering.

WRCE CERTIFICATE COURSE IN ELECTRONICS

The syllabus content of this whole-time course, which extends over two years, is strongly weighted towards the applied and practical aspects of Electronics. The course is organised to provide a qualification at Certificate level for those students who are preparing to work as production or maintenance technicians in the electronics industry.

Course Duration	Two years; five days per week.
Minimum Qualifications for Admission	A pass in five subjects at Ordinary level in the Leaving Certificate Examination, with Mathematics and English mandatory as two of these subjects. Final selection of students will be made following interview.

Curriculum	Year 1 Mathematics, Engineering Science, Electricity, Electronics, Electrical Draughting, Workshop Practice, Communication Studies, Communication Systems, Computer Programming. Year 2 Mathematics, Electricity, Electronics, Communication Systems, Computer Systems, Computer Programming.
Examinations and Awards	Examinations will be held in all subjects at the end of the first year, and the final Certificate Examinations will be held at the end of the second year of the course.
Fee	£55 per academic year.
Department in Charge	Telecommunications Engineering.

SRPO

POST OFFICE ENGINEERING TECHNICIANS' COURSE

This is a block release course conducted by arrangement with the Department of Posts and Telegraphs providing technical education for the technician trainees of that Department. The scheme has the co-operation of the Irish Post Office Engineering Union.

Course Duration	Three periods, each of 10 weeks duration ($32\frac{1}{2}$ hours per week) over two academic years.
Admission Requirements	The course is confined to Technician Trainees of the Department of Posts and Telegraphs.
Course	The course provides instruction in Irish, English, Mathematics, Physics, Electricity, Drawing and Electronics.
Fee	£27 per academic year. Trainees from areas outside Dublin City are admitted under special fee arrangements with the Vocational Education Committee of the areas concerned.
Department in Charge	Telecommunications Engineering.

COURSES FOR APPRENTICES AND CRAFTSMEN

SESB (Block) PEI (Day release)

ELECTRICAL INSTALLATION WORK

These courses provide full technical education for apprentice electricians in their first four years of apprenticeship.

Course Duration	Four years. Block Release, SESB: one term (i.e. 11 weeks of 32½ hours) per year of the course. Day Release, PEI: one day and three evenings per week. Some fourth-year students attend on one additional day per week. A fifth-year course of further study may be provided for suitable candidates.
Admission Requirements	Specified subjects of the Group Certificate or Intermediate Certificate examinations of the Department of Education. Prospective students must be apprentices to the electrical trade.
Course	The courses are based on the relevant examination syllabuses of the Department of Education and the City and Guilds of London Institute, and include Mathematics, Engineering Science, Drawing, Electricity, Electrical Installation Theory and Practice, Testing, General Studies and Social Science. Classes in Metalwork, Cable Jointing, etc., are provided for certain groups.
Examinations	The Trade and Technical Examinations of the Department of Education and of the City and Guilds of London Institute.
Department in Charge	Electrical Installation.

SEM

ELECTRICAL INSTALLATION AND MAINTENANCE

This course provides full technical education for apprentice electricians in large industrial concerns.

Course Duration	Four years: Approximately 16 weeks per year.
Admission Requirements	Specified subjects of the Group Certificate or Intermediate Certificate examinations of the Department of Education. Prospective students must be apprentices to the Electrical Trade.
Course	First and Second Years Mathematics, English and General Studies, Drawing, Engineering Science, Workshop Practice, Practical Installation, Electrical Science, Electrical Craft Practice, Workshop Technology, Social Science. Third Year Mathematics, English and General Studies, Planning of Electrical Installations, Practical Installation, Electrical Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science. Fourth Year Mathematics, General Studies, Planning of Electrical Installations, Electrical

Workshop Projects, Electrical Science, Electrical Craft Practice, Tutorial, Social Science.

Examinations Department of Education — Trade and Technical Examinations: City and Guilds of London Institute — Part II 236 and C Certificate Examinations.

Department in Charge Electrical Installation.

BESB ELECTRICAL INSTALLATION WORK

This Course provides technical and general education for apprentice electricians during the first three years of apprenticeship. Practical training is provided at an approved training centre.

Course Duration Three years. Block Release, one term of 11 weeks duration in each year of the course.

Admission Requirements Employment as an apprentice electrician and approved arrangements with a training centre.

Course The course is based on the relevant written examination syllabuses of the Department of Education and the City and Guilds of London Institute and includes Mathematics, Electrical Science, Electrical Craft Theory, Drawing, General Studies and Social Science. No workshop classes are provided.

Examinations The Electrical Trade and Technical Examinations of the Department of Education and the City and Guilds of London Institute.

Department in Charge Electrical Installation.

SEAS 1 and PAA 1 ELECTRICAL INSTALLATION WORK

This course provides technical and general education for apprentice electricians during their first year. Practical training is provided at an appropriate training centre.

Course Duration One year; one and a half days and two evenings per week. At the end of the year students transfer to either SESB or PEI to cover the Department of Education Senior Trade examinations.

Admission Requirements Employment as an apprentice electrician and approved arrangements with a recognised training centre.

Course The course is based on the relevant written examination syllabus of the Department of Education and includes Mathematics, Drawing, Electrical Science, Electrical Craft Theory, General Studies and Social Studies. No workshop classes are provided.

Examinations Department of Education Junior Trade Electrical examinations.

Department in Charge Electrical Installation.

T.1 1/2/3/4 EVENING COURSE FOR PERSONNEL IN THE ELECTRICAL INDUSTRY

A course in Applied Electricity and related Sciences. The last two years (T1.3 and T1.4) of the course are designed to assist apprentices in preparing for the Senior Trade Certificate examination of the Department of Education and the Part II 236 and C Certificate examinations of the City and Guilds of London Institute.

Course Duration Four years; four evenings per week.

Admission Requirements Prospective students must be in employment in some branch of the electrical industry. Applicants for the first year, T1.1, may be required to sit an entrance examination and for other years of the course applicants must satisfy the college that they have an acceptable knowledge of the matter covered in the years of the course preceding that for which they apply.

Course Mathematics, Electrical Craft Practice, Electrical Science and Technical Drawing.

Examinations The appropriate Trade and Technical examinations of the Department of Education and the City and Guilds of London Institute.

Fee £30 per academic year.

Department in Charge Electrical Installation.

T2.1. CABLE JOINTING

A course for electricians or apprentice electricians who wish to become proficient in the skills required in jointing underground cables.

Course Duration Two years; two evenings per week.

Admission Requirements Prospective students must have passed the Junior Trade Certificate examinations of the Department of Education or have an equivalent qualification, and must satisfy the College that proficiency in Cable Jointing is required in their employment.

Course Both the theory and practice of the techniques are covered.

Fee £30 per academic year.

Department in Charge Electrical Installation.

T3. ELECTRICAL TECHNICIANS' CERTIFICATE (PARTS II AND III) CITY & GUILDS OF LONDON INSTITUTE

T3.1 This course is designed to prepare students for the Electrical Technicians' Part II examination of the City and Guilds of London Institute.

Course Duration One year; four evenings per week.

Admission Requirements Prospective students must have passed the Department of Education Senior Trade Certificate in Practical Installation Work, Electrical Science and Electrical Craft Practice.

Course Electrical Power Equipment, Testing Methods and Reliability, Planning of Electrical Installations.

Examinations Examinations in each of the above three subjects will take place at the end of the year.

Fee £30 per academic year.

Department in Charge Electrical Installation.

T3. 2/3 This course is designed to prepare students for the Electrical Technicians' Certificate Part III examination of the City and Guilds of London Institute.

Course Duration Two years; two evenings per week.

Admission Requirements Prospective students must have obtained a pass in the Electrical Technicians' Certificate Part II Examination of the City and Guilds of London Institute.

Course Transmission and Distribution of Electrical Energy, Utilisation of Electrical Energy.

Examinations Examination in Utilisation of Electrical Energy will be taken at the end of the first year. Examination in Transmission and Distribution of Electricity Energy at the end of the second year.

Fee £30 per academic year.

Department in Charge Electrical Installation.

SEAL COURSE FOR APPRENTICE ELECTRICIANS IN THE AIRCRAFT INDUSTRY

A full-time course providing for the technical education of aircraft electricians during the first two years of apprenticeship.

Course Duration Two years: 35 – 37 weeks (32½ hours per week) each course year.

Admission Requirements Specified subjects in the Group Certificate or Intermediate Certificate examinations of the Department of Education.
Prospective students must be apprenticed to the electrical trade in the aircraft industry.

Course Mathematics, Engineering Science, Drawing, Engineering Workshop Practice, Electrical Science and Laboratory, Practical Installation, Aircraft Electrical Practice, General Studies, Social Science. The course is based on the relevant examination syllabus of the Department of Education, the Department of Transport and Power (Civil Aviation) and the City and Guilds of London Institute.

Examinations Trade and Technical Examinations of the Department of Education and City and Guilds of London Institute, and the Licence examinations of the Department of Transport and Power.

Fee £55 per academic year.

Department in Charge Electrical Installation.

WBT DIPLOMA IN BAKERY PRODUCTION AND MANAGEMENT

This course is intended to meet the needs of students who wish to attain supervisory status or a position of responsibility in a large or small business where an understanding of the scientific principles involved, coupled with a wide knowledge of the bakery industry is essential.

Course Duration Approximately 26 weeks full-time attendance at the College each year for three years. When not attending the College the student is expected to be in employment in the Bakery industry.

Qualifications for Entry Pass Leaving Certificate or its equivalent, with a minimum of six months practical experience in a bakery. City and Guilds Advanced Craft Certificate (No. 120 Part 2) – Students holding craft certificates will be exempted from the practical bakery instruction portion of the course.

Examinations The College Diploma will be awarded to those students who complete the course in a satisfactory manner and pass the required examinations. In addition students will be encouraged to sit for the City and Guilds of London Institute Full Technological Certificate at the end of the third year.

Fee £40 (this may be reduced to £30 for students exempt from practical instruction).

Teacher in Charge Daniel T. Carey, N.B. Dip., Tech.Dip., C. & G., M.I.I.B.

PSB COURSE IN BAKERY PRACTICE

A part-time course in Breadmaking and Flour Confectionery for Bakery Apprentices.

Course Duration Four years: one day and one evening per week.

Admission Requirements Prospective students must be apprenticed to the Breadmaking and Flour Confectionery trades and pass an entrance examination. Students holding a pass Leaving Certificate are exempt from entrance examination.

Course Instruction is given in Bakery Science and Bakery Practice, English and Social Science.

Examinations Internal examinations are set by the College. Students may also sit examinations of the City and Guilds of London Institute.

Teacher in Charge Daniel T. Carey, N.B.Dip., Tech.Dip., C. & G., M.I.I.B.

B1.2 & B1.3 CONFECTIONERY DECORATION

This evening course comprises a one-year intermediate course (Ref. B1.2) and a one-year Advanced Course (Ref. B1.3) in Design, Icing and Piping. Attendance is required on one evening per week. Students must be employed in an appropriate bakery trade. Examinations may be taken at the end of each year.

Fee £22 per academic year.

Teacher in Charge Daniel T. Carey, N.B.Dip., Tech.Dip., C. & G., M.I.I.B.

COURSES IN PHYSICAL EDUCATION

PHYSICAL EDUCATION

These courses are designed to cater for the recreational activities of the students and staff of the College and will include the following Activities:

Swimming	Volley Ball
Life Saving	Indoor Football
Sub Aqua	Soccer
Water Polo	Gaelic Games
Gymnastics	Rugby
Badminton	Hockey (Ladies)
Fencing	Hockey (Mixed)
Judo	Orienteering
Golf Tuition	First Aid
Basketball	Referees' Courses
Trampolineing	Lectures in P.E.

SPECIAL COURSES IN ENGINEERING AND SCIENCE

The College is prepared, subject to availability of accommodation and sufficient demand, to provide short courses of lectures on topics of Engineering or Scientific interest during the session 1980/1981. These courses would normally be conducted in the evenings. Courses that have been provided in previous years include:

Electronics for Engineers
(two parts, 20 lectures each).

Mathematics for Electrical Engineers
(10 lectures)

Electronics for Chemists
(10 lectures)

Chromatography
(6 lectures)

Instrumental Analysis
(8 lectures)

Statistics for Engineers and Scientists
(20 lectures)

Chemistry in the Food Industry
(8 lectures)

Industrial Food Processing
(10 full days)

The College would welcome suggestions for other courses of this kind, and those interested should communicate with the Principal.

GENERAL INFORMATION

Day classes will normally be held between 9 a.m. and 6 p.m. each weekday except Saturday.

Evening Classes will normally be held from 7 p.m. to 10 p.m.

Office Hours: The Office will be open for enrolment of students from 9.30 a.m. to 12 noon, and 2 p.m. to 4 p.m., Monday to Thursday, Friday 9.30 a.m. to 11.00 a.m. and 3 p.m. to 4 p.m., and at special periods of the year at times which will be posted on the Notice Board.

Interviews with the Principal can be arranged only by appointment.

Except during enrolment periods, members of the teaching staff will not be available for interviews except at times which will be indicated on application to the College Office.

The College Library is normally open between the hours of 9.30 a.m. — 9.30 p.m. From the middle of the Second Term it is normally open also from 9.00 a.m. — 1.00 p.m. on Saturday mornings.